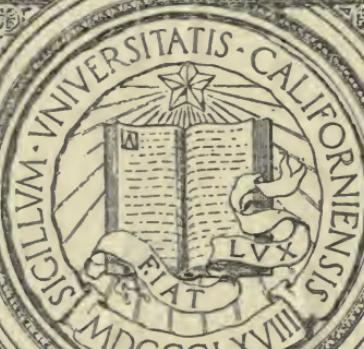


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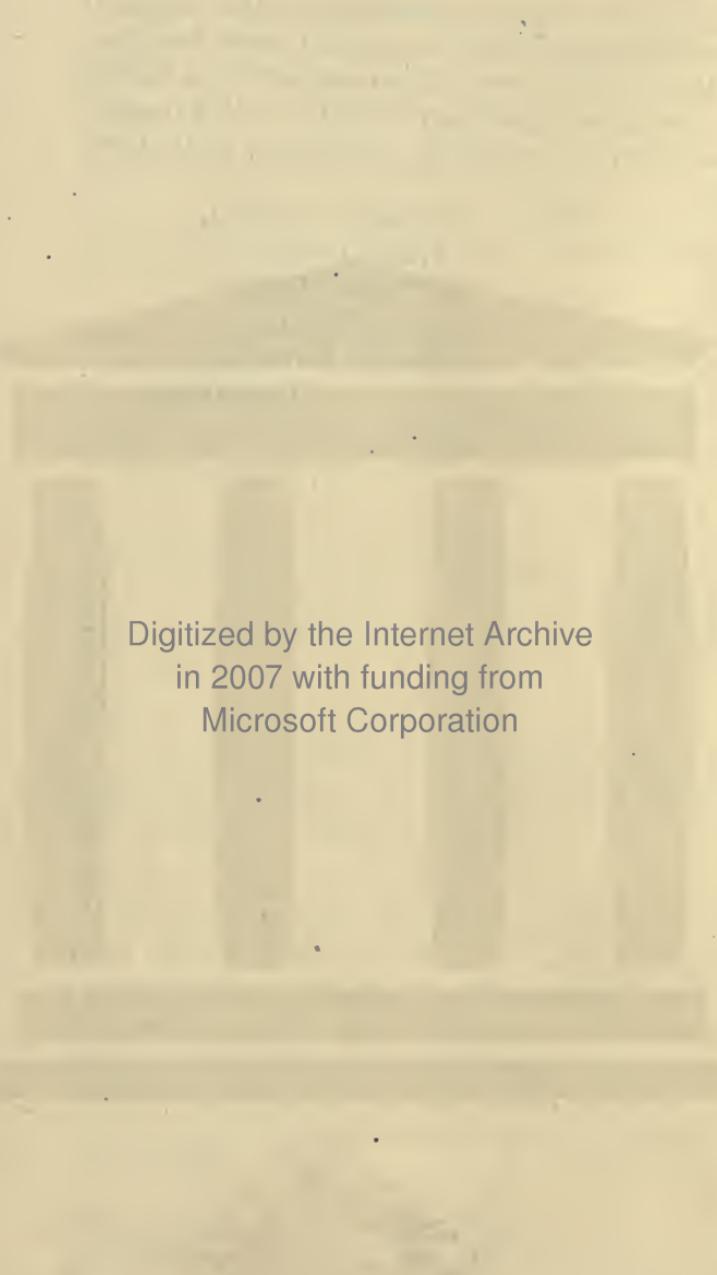
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REPORT

OF THE

Board of Regents, State University,

TO THE

CONSTITUTIONAL CONVENTION.

1878

Editorial

the wind will always be found

in the same place.

so that man can never escape.

UNIVERSITY OF CALIFORNIA,
BERKELEY, November 23d, 1878. }

To the Honorable President and Members of the Constitutional Convention:

GENTLEMEN: In response to your resolution of date October thirty-first, eighteen hundred and seventy-eight, the following statements are herewith respectfully submitted, arranged in the following order:

First—Statement of cash receipts from all sources, from August eighth, eighteen hundred and sixty-eight, to June thirtieth, eighteen hundred and seventy-eight, both inclusive.

Second—Statement of cash disbursements and investments for the same period.

Third—Appendix “A” and “B,” giving the proper segregations of cash receipts and disbursements.

Fourth—Statements of accounts with savings banks, and certain donations.

UNIVERSITY OF CALIFORNIA.

Statement of Cash Receipts from August 8th, 1868, to June 30th, 1878, both inclusive. (a.)

LEDGER TITLES.	1868-69.	1869-70.	1870-71.	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	Totals.
Land Fund (grant of 150,000 acres) -----	\$3,440 00	\$4,600 65	\$6,911 25	\$22,599 40	\$33,646 68	\$43,993 89	\$45,708 40	\$46,968 62	\$42,621 19	\$86,882 98	\$356,273 06
Forfeited Seminary Land Fund -----											
Seminary Land Fund -----											
Land Fund Interest -----											
Land Fund Fees -----	16 00	682 85	2,677 63	5,478 65	11,555 51	16,113 92	35,983 11	40,882 22	41,881 81	28,621 22	505 99
Seminary and Public Building Land—Int.		88 00	210 00	422 00	808 00	1,408 00	2,843 50	1,762 00	1,045 00	650 00	182,776 82
United States Endowment Interest (on bds.)	936 00	27,831 00	17,450 00								9,252 50
Forfeited Seminary Land Interest -----											
Forfeited Seminary Land Fees -----											
Seminary Land Fund Investment Interest -----											
Seminary Land Fund Interest -----											
Interest and discount -----											
Interest on bank balances -----											
Interest on Brayton property notes -----											
Interest from State Endowment (tide land) -----											
Interest from Special Investment Fund -----											
Interest on Brayton Real Estate Fund -----											
State appropriations -----	*\$44,064 00	\$100,000 00	\$100,000 00	\$174,205 60	\$31,767 39	\$246,393 62	\$242,400 00	\$100 00	\$75 00		
Admission and Initiation fees -----		1,700 00	20 00	370 00	379 50	685 00	277 50	496 00	993 85		
Water-rates -----											
Preparatory department -----											
Excess payments -----											
Land administration -----											
Brayton property -----											
College of California -----											
State Geological Survey -----											
Cottage rents -----											
Building Fund—Audited demands -----											
Totals -----	\$48,466 00	\$140,053 70	\$120,885 06	\$30,844 20	\$143,811 82	\$426,516 49	\$226,986 37	\$301,574 33	\$171,723 78	\$208,823 91	\$1,821,675 65

* Act of March 26th, 1868.

+ Tide Land Appropriation Act of March 30th, 1868.

Appropriation to meet monthly deficiencies, March 26th, 1872.

Act of March 30th, 1874.

Act of April, 1872, appropriation of \$300,000.

(a.) See Appendix.

Statement of cash disbursements and investments from August 11th, 1868, to June 30th, 1878, both inclusive. (b.)

LEDGER TITLES.	1868-69.	1869-70.	1870-71.	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	Totals.
Salaries, educational	\$2,400 00	\$27,957 50	\$38,001 67	\$40,346 66	\$33,810 80	\$36,176 36	\$69,477 99	\$71,011 59	\$72,359 92	\$478,250 14	
Salaries* -----	2,617 15	7,130 17	7,465 80	7,080 00	7,141 66	8,135 46	11,685 00	16,749 30	13,405 00	95,329 54	
Land administration	506 25	120 00	62 50		1,652 00	526 03	181 90	638 40	764 11	4,726 69	
University site improvements	7,639 12	6,721 97	784 46	2,165 71	2,452 40	1,646 14	1,230 83	3,671 48	3,123 53	3,237 16	32,672 80
Office furniture and expenses	749 80	220 00	145 90	1,168 12	214 66	56 00	37 07	156 45	61 22	11 85	1,821 06
Kent -----	614 50	925 00	1,545 00	1,840 00	932 50	940 00	600 00	640 00	720 00	610 00	9,107 00
Building Fund -----	215 00	10,487 62	46,024 66	738 54		269,930 65					357,396 37
Incidental expenses -----		132 00	1,045 59	355 00	195 50	685 00	872 65	605 00	106 00	94 63	3,991 37
University Water Company -----	1,103 01	963 40	1,913 88	300 00		78 00					5,967 50
College of California -----	72,015 39	7,241 75	1,225 40								391 72
Apparatus -----											80,682 54
Library Fund -----	17,908 21	963 95	112 75	23 20	282 73	813 38	1,674 86	404 15	* 62 60	22,235 83	
Telegraphing and expressing -----	1,274 40	3,295 36	2,399 73	2,175 53	1,160 42	5,896 75	770 25	1,352 43	18,399 39	18,399 39	
Official and lecturing expenses -----	75 48	27 15	3 65	30 25	30 00	560 47	309 06	29 83	1,07 41	1,289 61	
College deliberations -----		502 00	500 00	1,000 25	3 70	2,336 51	457 29	38 25	115 75	4,804 10	
Fuel, lights, and water -----	609 50	454 65	913 54	685 65	1,094 45	568 35	368 94	318 45	5,013 54		
Postage and revenue stamps -----	160 75	503 91	331 20	1,484 83	1,363 26	1,495 41	735 82	885 40	6,900 58		
Stationery -----	47 65	143 50	177 10	124 26	200 75	120 75	225 76				983 15
Brayton property -----	29 91	126 22	112 00	480 02	610 70	125 30	123 25	103 35			1,896 85
Equipment and repairs -----	21,122 25		8,336 25	1,729 15	57,639 63						88,787 28
Laboratory -----	7,444 83	2,796 70	1,217 68	1,168 02	4,328 21	8,639 71	2,195 64				31,327 82
Advertising and printing -----	2,003 66	5 17	262 49	34 10	352 68	1,378 00	3,156 54	96 83	1,933 74		
Free scholarships -----	550 81	681 50	938 35	729 75	398 35	1,226 29	1,460 67	542 99	1,036 99		
Preparatory Department -----		1,500 00	1,500 00	1,499 99							5,499 99
Museum -----	1,590 00	955 39	657 68	11 25	402 50	3,564 05	2,287 23	1,341 90	1,521 05		2,545 39
Students' cotages -----		985 68		345 60	973 20	981 09	58 15	28 90			10,720 61
Tompkins Endowment -----			148 60		25,121 28						2,398 19
Toland Medical College -----				30 00	216 22	920 00	30 91	36 00			1,48 60
University printing office -----						2,328 50	188 65	86 80			3,222 33
Agricultural Department -----						12,033 64	2,657 46	1,961 15	1,545 19		18,843 94
State Geological Survey -----						137 22	1,646 50				26,905 00
Contingent Fund -----						3,246 86	152 21				3,559 23
Labor Contingent Fund -----									1,625 00		1,625 00
Mechanical Department -----						272 53	1,000 00				1,000 00
Military Department -----											275 53
Interest and discount -----	157 50	104 00		510 83	30 65	2,296 36	95 90				761 97
Brayton Real Estate Fund -----					790 87	5,320 57	783 93	711 73			3,195 24
Excess payments -----											20,140 00
Mechanical Arts College -----											15,432 59
United States Endowment -----											63 35
Seminary Land Fund Investment -----											310,934 50
Bills receivable, account of Land Fund -----											19,380 00
Totals -----	\$15,170 99	\$148,092 76	\$137,660 11	\$68,598 87	\$76,568 99	\$379,617 47	\$335,411 54	\$203,918 56	\$159,720 09	\$231,456 83	\$1,756,216 21

* Secretaries, Curators, Land Agents, Janitors, etc. (b.) See Appendix "B."

APPENDIX "A."

SEGREGATION OF CASH RECEIPTS.

ENDOWMENTS—(FROM CONGRESSIONAL GRANTS.)

Land Fund—From sales of land, grant 150,000 acres-----	\$356,273 03
Seminary Land Fund—From sales under grant of seventy-two sections-----	19,505 99
Forfeited Seminary Land Fund—From sales of forfeited lands resold by the Regents of the University-----	480 00
Total cash receipts from Congressional endowments-----	\$376,259 02

INCOME—(FROM CONGRESSIONAL ENDOWMENTS.)

Land Fund Interest—From interest received on deferred payments of principal, grant of 150,000 acres-----	\$182,776 82
Land Fund Fees—From fees on applications, certificates of deposit, and patents-----	9,252 50
Interest on excess payments-----	3,372 46
Seminary Land Fund Interest—(On bonds)-----	1,111 50
Seminary Land Fund Interest—On deferred payments, Controller's warrants-----	698 48
Forfeited Seminary Land Interest-----	546 82
Forfeited Seminary Land Fund Fees-----	16 00
Special Investment Fund Interest—From investment of excess payments in bonds-----	1,042 00
Interest on Certificates of Deposit—From interest on preliminary deposits of one dollar per acre, made by applicants for lands under the grant of 150,000 acres. Said deposits held by the Land Department of the University, awaiting action by the United States Land Offices-----	14,599 56
United States Endowment Interest—From interest on bonds purchased from proceeds of sales of land belonging to the grant of 150,000 acres-----	35,609 03
Seminary and Public Building Land Fund Interest—From interest on deferred payments of principal, Controller's warrants-----	27,217 00
Total cash receipts from Congressional endowments and income therefrom-----	\$652,501 17

TRUST FUNDS.

Excess Payments—From collections of \$1 25 per acre on double minimum lands-----	\$61,974 84
State Geological Survey, collections on account of-----	4,417 85
Total cash receipts from Trust Fund-----	66,392 69
College of California—From amounts received from sales of real estate, etc.-----	\$83,235 00
Building Fund—From amounts received for construction of buildings-----	357,396 37
Amounts of income received from the State to pay current expenses-----	440,631 37 662,150 42
Total cash receipts from all sources-----	\$1,821,675 65

APPENDIX "B."

SEGREGATION OF CASH DISBURSEMENTS AND INVESTMENTS.

INVESTMENTS.

United States Endowment Fund—Investment of proceeds from sales of the agricultural grant of 150,000 acres, in bonds of the par value of \$348,000, at a cost of-----	\$346,934 50
Seminary Land Investment Fund—Investment of proceeds from sales of the seminary grant of seventy-two sections, in bonds of the par value of \$19,000, at a cost of-----	19,380 00
Brayton Real Estate Fund—Investment from proceeds of the sale of Oakland property (so-called Brayton property), in bonds of the par value of \$19,500, at a cost of-----	20,140 00
(Note.—The Treasurer of the University now holds mortgage notes received in part payment from sales of above property, amounting to \$68,530, bearing interest at the rate of eight (8) per cent. per annum, payable quarterly. As the notes are paid, investments are made in bonds for account of said fund.)	
Bills Receivable—Investment of proceeds belonging to the grant of 150,000 acres-----	12,895 10
(Note.—This amount of \$12,895 10 was credited to the Land Fund, forming a part of the statement of cash receipts, and is here represented by a joint note due January 1st, 1879, bearing ten per cent. per annum interest.)	
Building Fund—Cost of College buildings known as North and South Hall, formerly known as College of Agriculture and College of Letters-----	357,396 37
Students' Cottages—Cost of eight cottages built for occupation of students-----	26,905 00
University Site Improvements—Cost of ornamental and useful trees, fencing, and grading the grounds-----	32,672 80
University Water Company—Cost of construction of water ditch, reservoirs, iron pipe, etc.-----	5,967 50
College of California—Cost of lands, expenses of surveys, legal services, etc.-----	80,682 52
Apparatus -----	22,235 83
Library -----	18,399 89
Brayton Property—Cost of three blocks in Oakland and buildings thereon -----	88,787 28
Museum -----	2,398 21
University printing office -----	2,614 04
Mechanical Arts College—advance -----	69 35
Total cash investments-----	\$1,031,478 39

TRUST FUNDS.

Excess Payments—Amounts paid the United States-----	\$15,432 59
State Geological Survey—Amounts paid for account of-----	3,559 23
Amounts disbursed for payment of current expenses of the University-----	18,991 82
Total cash disbursements and investments-----	705,746 00
	\$1,756,216 21

The following statements of accounts, which are made up of donations, cash received from excess payments, and bank certificates of deposit, do not properly belong to the exhibits of cash receipts and expenditures, and are deposited with the following savings banks:

UNION SAVINGS BANK, OF OAKLAND, CALIFORNIA.

DEBITS.

To deposit of rents and interest thereon—Agassiz Professorship—from March 13th, 1873, to June 30th, 1878-----	\$832 73
To deposit of donations (account of Medal Fund), and interest thereon from March 13th, 1873, to June 30th, 1878-----	3,486 62
To deposit of donation by H. D. Bacon, of \$500, for an Engineering Fund, and interest thereon -----	714 33
To deposit account of excess payment, made June 30th, 1877-----	\$6,000 00
To interest thereon-----	255 00
	6,255 00
To deposits of certificates of deposit, issued by the Bank of California, (said certificates representing the preliminary deposits made by applicants for lands):	
Deposited February 24th, 1877-----	\$12,039 33
And interest thereon to January 1st, 1878-----	885 60
	12,924 93
Total debits-----	\$24,213 61

CREDITS.

By amounts paid for medals (account of Medal Fund)-----	\$750 00
By amounts paid for apparatus ordered by Professor of Civil Engineering, on account of Engineering Fund-----	528 38
By amount transferred to Treasurer of University of certificate of deposit-----	1,000 00
	2,278 38
Total credit-----	\$21,935 23
Balance due University-----	

HIBERNIA SAVINGS AND LOAN SOCIETY, SAN FRANCISCO.

DEBITS.

To deposit of excess payments, made October 12th, 1877-----	\$5,000 00
To interest on same, to January 1st, 1878-----	93 75
	\$5,093 75

SECURITY SAVINGS BANK, SAN FRANCISCO.

To deposit of excess payments, made from June 30th, 1877, to January 31st, 1878-----	\$28,162 50
To interest on same, to January 1st, 1878-----	448 00
	\$28,610 50

SAN FRANCISCO SAVINGS UNION, OF SAN FRANCISCO.

To deposit of certificate of deposit, issued by Bank of California, made February 23d, 1877-----	\$12,212 62
To deposit of certificate of deposit by Bank of California, made June 25th, 1878-----	3,250 00
To interest to June 30th, 1877-----	\$286 27
To interest to January 1st, 1878-----	506 17
	792 44
	\$16,255 06

THE OAKLAND BANK OF SAVINGS, OAKLAND, CALIFORNIA.

To deposit of excess payments, made October 12th, 1877-----	\$5,000 00
To interest to January 1st, 1878-----	70 83
	<hr/>
	\$5,070 83

RECAPITULATION.

Deposit with savings banks, for account of Agassiz Professorship-----	\$832 73
Deposit with savings banks, for account of Medal Fund-----	2,736 62
Deposit with savings banks, for account of Civil Engineering Department-----	185 95
Deposit with savings banks, for account of excess payments-----	44,162 50
Deposit with savings banks, for account of excess payments, interest-----	867 58
Deposit with savings banks, for account of certificates of deposit-----	26,501 95
Deposit with savings banks, for account of certificates of deposit, interest on same-----	1,678 04
Total amount deposited with savings banks, to June 30th, 1878-----	\$76,965 37
	<hr/>

CIVIL ENGINEERING DEPARTMENT.

November 13th, 1876—To deposit of donation from H. D. Bacon-----	\$500 00
To interest from April 26th, 1873, to July 1st, 1876-----	169 22
To interest from July 1st, 1876, to January 1st, 1878-----	45 11
	<hr/>
November 13th, 1876—By amount paid for apparatus-----	\$363 99
February 20th, 1877—By amount paid for apparatus-----	104 64
February 20th, 1877—By amount paid for freight-----	59 75
	<hr/>
Balance due June 30th, 1878-----	528 38
	<hr/>
Balance due June 30th, 1878-----	\$185 95

THE UNIVERSITY MEDAL FUND.

Dr.	Deposited with the Union Savings Bank, Oakland, California.	Cr.
-----	---	-----

1874.			1873.		
July 30-----	To cash for medal (Frank Otis)-----	\$125 00	March 13-----	By donations-----	\$2,383 68
October 10-----	To cash for medal (J. M. Whitworth)-----	125 00	June 30-----	By interest-----	56 05
October 10-----	To cash for medal (F. H. Whitworth)-----	125 00	Dec. 31-----	By interest-----	121 48
1875.			1874.		
July 16-----	To cash for medal (T. F. Barry)-----	125 00	June 30-----	By interest-----	126 99
1876.			Dec. 31-----	By interest-----	115 79
Nov. 30-----	To cash for medals (D. B. Huntley)-----	125 00	1875.		
	(F. L. Button)-----	125 00	June 30-----	By interest-----	114 41
			Dec. 31-----	By interest-----	114 86
1878.			1876.		
June 30-----	To balance-----	\$750 00	June 30-----	By interest-----	119 37
		2,736 62	Jan. 31-----	By interest-----	115 13
			July 30-----	By interest-----	112 40
			1878.		
			Jan. 31-----	By interest-----	106 46
					<hr/>
					\$3,486 62
			June 30-----	By balance-----	\$2,736 62

THE AGASSIZ PROFESSORSHIP FUND.

Dr.		Deposited with the Union Savings Bank, Oakland, California.	Cr.
1876. June 30	To balance -----	\$485 56	
			1873. March 13 ----- By cash from rent \$100 00
			June 30 ----- By interest 2 35
			Dec. 31 ----- By interest 5 04
			1874. June 30 ----- By interest 6 08
			August 19 ----- By cash from rent 100 00
			Nov. 14 ----- By cash from rent 100 00
			Dec. 31 ----- By interest 9 27
			1875. June 30 ----- By interest 15 22
			Dec. 11 ----- By cash from rent 125 00
			1876. June 30 ----- By interest 22 60
1877. June 30	To balance -----	\$485 56	
		\$679 09	
			1876. June 30 ----- By balance \$485 56
			Dec. 18 ----- By rent 125 00
			1877. June 30 ----- By interest 68 53
		\$679 09	
			1877. June 30 ----- By balance \$679 09
			1878. Jan. 31 ----- By interest 28 64
			March 31 ----- By cash from rent 125 00
			June 30 ----- \$832 73
1878. June 30	To balance -----	\$832 73	June 30 ----- By balance \$832 73

RECAPITULATION.

Total receipts -----	\$1,821,675 65
Total disbursements and investments -----	1,756,216 21
Excess of receipts over disbursements and investments -----	\$65,459 44

CASH STATEMENT.

By cash balance with Treasurer, D. O. Mills, June 3d, 1878-----	\$21,296 94
By cash deposit with savings bank, account of excess payments, June 3d, 1878-----	44,162 50
Total -----	\$65,459 44

JOHN LECONTE,
President of the University of California.

ROBT. E. C. STEARNS,
Secretary of the Board of Regents, University of California.

[The following statement from the President, Jno. LeConte, and letter of Professor E. W. Hilgard, are, by order of the Constitutional Convention, appended to this report.]

WHAT HAVE THE REGENTS OF THE UNIVERSITY TO SHOW FOR THEIR EXPENDITURE?

1. They have secured a corps of professors and instructors of ability and reputation, and established a *curriculum* of studies which, for its range and variety, bears comparison with the oldest and best endowed institutions in the Eastern States.

2. They have, in the course of nine years, succeeded in establishing an institution of high grade, which already assumes an acknowledged rank among the Universities of our country—in which instruction is imparted in all branches of culture and useful knowledge, free to all residents of California, both male and female. No money consideration can represent the value of such an institution to the State.

3. The amount expended for instruction in its various forms, for free scholarships, and for support (during a short period) of a Preparatory Department, has of course gone beyond recall. For this they have nothing *tangible* to show. It is represented by the knowledge imparted to hundreds of the youth of our State. It will assuredly bear its fruits in time, in the form of wise statesmen and legislators, accomplished scholars, original thinkers and investigators, able jurists, public benefactors, and virtuous citizens. Dollars and cents can not represent the value of these contributions to modern civilization.

4. But, aside from the intangible blessings conferred by the University, the Regents have *properties* of great value to show for the money expended. The State now owns:

(1.) Two hundred acres of land at Berkeley, with cost of ornamenting, grading, and improving site—valued at.....	\$250,000
(2.) Three first-class buildings at Berkeley, with the furniture of the same.....	397,000
(3.) A museum, embracing extensive collections of geological, mineralogical, botanical, and ethnological specimens; also, works of art, etc.—mostly private donations	50,000
(4.) A library, containing over 14,000 volumes—expended by Regents.....	18,000
Private donations (estimated value)	17,000
(5.) Collections of apparatus, physical, chemical, and other aids to instruction.....	25,000
(6.) Eight (8) cottages for students.....	24,000
(7.) Gymnasium building—recently the gift of Mr. A. K. P. Harmon.....	7,000
(8.) Printing office property	2,500
Printing press—gift of Dr. Samuel Merritt.....	1,500
(9.) Propagating houses, barn, farm implements, and orchard containing over five hundred varieties; also, many varieties of grapes, etc.....	4,800
(10.) Forty-seven acres of land near Oakland—a gift from the late Edward Tompkins—present value.....	40,000
(11.) Toland Medical Hall in San Francisco—a gift from Dr. H. H. Toland.....	75,000
(12.) Medal Fund—a gift from friends of the University.....	2,600
(13.) Brayton property—mortgaged notes	68,530
Brayton property—investment in bonds.....	20,140
(14.) Seminary Land Fund—invested by Regents in six per cent. bonds—cost.....	19,380
	\$1,022,450

JOHN LECONTE,
President of University of California.

UNIVERSITY OF CALIFORNIA, COLLEGE OF AGRICULTURE, }
BERKELEY, November 18th, 1878. }

Honorable J. R. Freud:

DEAR SIR: Your favor of sixteenth came duly to hand. As it would be difficult, and on account of the state of my eyes almost impossible, for me to make out, at short notice, as full a statement as would be desirable in respect to the matters you allude to, I mail to you with this such printed matter as I have published, bearing on the questions in hand. My Walnut Creek lecture, and the first fifteen pages of my report to the President, contain the gist of the whole matter, so far as my views on the past, present, and future of the Agricultural Department are concerned; and I have only to add that, with the aid of the appropriation made by the last Legislature, these views are now being carried out as rapidly as possible, in accordance with a printed, but not as yet published, programme, of which, unfortunately, I have no copy to send you, but which is in the hands of both Mr. Martin and Mr. Winans. This programme includes:

1. Courses of lectures on "special cultures," in accordance with the circular herewith inclosed. This is given regularly by Mr. C. H. Dwinelle, and by other lecturers specially competent in particular subjects, as these can be obtained. Among the latter, a clinical lecture on "glanders" was, last week, delivered by Dr. A. De Tavel, of San Francisco, to a large audience. Mr. Dwinelle's lectures are regularly attended by four students, and almost always by from two to six persons not regular students in the agricultural course, of which this is the "senior" year.

2. A garden of economic botany. This is now being laid out and occupied, on the level tract next the entrance from the railroad depot. It will embrace, as fully as possible, all the economically useful plants capable of outdoor culture in this climate. At the same time, culture experiments on a larger scale are being carried out on the grounds north of the branch of Strawberry Creek; and, for the culture of plants requiring heat, an addition is being made to the propagating houses already occupied. A large number of seeds of important forest trees have lately been put into the ground, to be later transplanted to suitable positions in the University domain, which will ultimately (if my plans are carried out) be to the agricultural student what the cabinet of minerals and laboratory are to the mining student.

3. Increased and improved means of demonstration in instruction in the several practical courses, in the way of collections, illustrations, implements, etc.

4. The continuation, to the extent rendered possible by our means, of the work of an agricultural survey, as explained in my report to the President, page eleven and following ones, and exemplified in the Appendix, pages twenty to sixty-three. A number of important matters have been under examination since the date of this report, and will be published before long. At the moment, the work has received a check in the resignation of my assistant, who can be replaced only by training up another graduate in his stead. For this purpose, I have selected Mr. F. W. Morse, of the class of eighteen hundred and seventy-eight.

I consider the prosecution of this work as the key to the situation, as it is the most direct means of proving to farmers how great are the

benefits to be derived by their sons from the study of the scientific principles underlying agriculture. I cannot but ascribe largely to the published and unpublished results of this work, the gratifying increase of students in the strictly agricultural course, and the increased attendance of others upon the lectures of the department, so far from the "single student" of current report (which doubtless originated in the statement that there *was* but one student in the senior class this session), the facts now are as follows:

Regularly attending senior course of special cultures	4
Regularly attending junior course of agricultural chemistry	6
Electing the course of economic botany, second term, sophomore	12
Total in agricultural course proper, by January 1st, 1879	22
Deduct as twice mentioned	4
Total attending regularly	18

It should be remembered that, moreover, the entire scientific division of the sophomore class (from forty-five to fifty students) attend regularly the first term of my course, to wit, general botany, which begins the agricultural course. After the first term they elect their college, as above stated.

When you remember that years ago not a single student elected the agricultural course at this time of the year, the change that has occurred cannot but be gratifying. The course has become acceptable and respectable, in the eyes of the students and their parents, in proportion to its increased thoroughness and educational value. And I have no fears as regards its future increase of patronage and usefulness, if the policy that has effected this change is continued. Let me add, that I consider the number of students now in attendance here, on this course, as a fair index of the interest now taken by the farming population in the *professional* education of their sons as farmers. If the means and appliances for such education here are not, at this time, all that could be desired, whatever is offered is indispensable, and what is lacking can in a great degree be made up by practice on any well-conducted farm. For mere drill in farm operations no sensible man will send his son to college; and business management of a farm will never be learned under the artificial conditions of a College Farm. I am unable to see why, of all professional schools, the Agricultural College should be saddled with the task of converting young men to farming, by keeping them surrounded with what some are pleased to term an "agricultural atmosphere." It is the unintelligent drudgery of ordinary farm life that our boys run away from; and it is only by rendering them intelligent laborers, and not by rubbing in the drudgery, that their aversion to farm life (for which certainly the colleges are not responsible) can be overcome. Whenever farming comes to be a learned profession amongst us, and to be considered as such, young men will not need to be surrounded by a dense "agricultural atmosphere" in order to keep them to their profession. And then, the many farmers who now send their sons to all but the agricultural course at the University, will cease to tell their sons that they "can teach them all the farming they need at home." I am hopeful that this day is coming sooner in California than elsewhere, for natural reasons; but its coming will not be hastened by removing our future farmers from

contact with the rest of the rising and cultured youth of the State; and if Mr. Morrill's own statement is to be believed, that was assuredly not the object of the "Morrill grant."

In conclusion, allow me to suggest, that the first thing needful for rendering the aid of science accessible to the rural population is, that the rudiments at least of natural science should be effectually, and not only nominally, taught in the common schools. The reason why this is not now done is simply that there are too few teachers competent to give such instruction, and if the University does no more than supply these teachers it will have done the greatest possible service to the cause of agriculture. Then, indeed, "farm schools" scattered over the country could do real service, because they would have suitable material to work upon. But so long as there are no teachers, no law or constitutional provision can create efficient schools.

If there is any farther information that I can furnish you, please let me know, and I will do so as rapidly as possible.

Very respectfully yours,

EUG. W. HILGARD.

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REPORT OF COMMISSION

TO

EXAMINE INTO AND REPORT

ON THE

CONDITION OF CERTAIN FUNDS, ETC.,

IN

RELATION TO THE STATE UNIVERSITY.



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